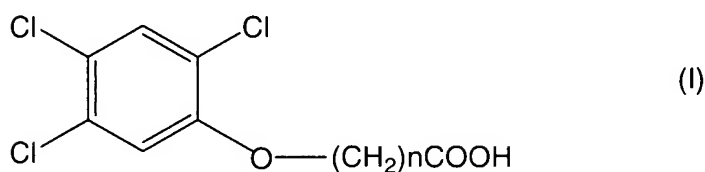


AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

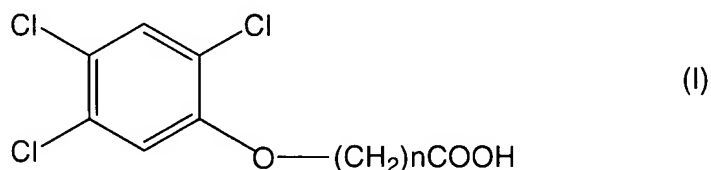
1. (currently amended) A 2,4,5-trichlorophenoxyalkyl carboxylic acid represented by the following formula (I):



where n is an integer of ~~[[1]]~~ 5 to 10.

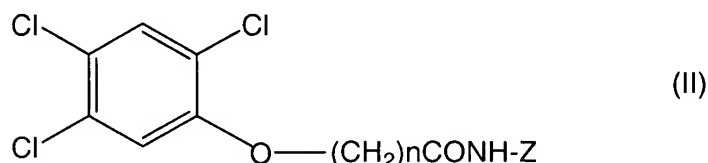
2. (currently amended) An immunoassay for determining an amount of dioxins in a sample comprising: [[,]]

subjecting the sample and a competitive antigen for dioxins to a competitive reaction with an anti-dioxin antibody for a time and under conditions allowing the formation of an immunocomplex between dioxins in the sample and the competitive antigen for dioxins, and the anti-dioxin antibody, wherein the competitive antigen for dioxins is a 2,4,5-trichlorophenoxyalkyl carboxylic acid according to claim 1
~~is used as an antigen for a competitive immunoassay~~ represented by the following formula (I):



where n is an integer of 1 to 10; and
determining formation of the immunocomplex between the competitive
antigen for dioxins and the anti-dioxin antibody by a competitive immunoassay
procedure.

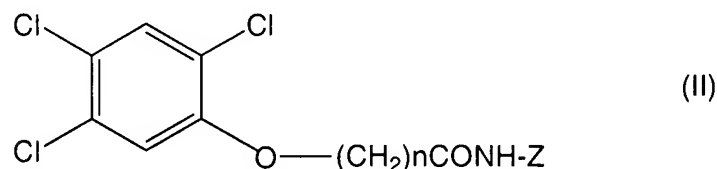
3. (currently amended) A 2,4,5-trichlorophenoxyalkyl amide derivative represented by the following formula (II):



where n is an integer of 1 to 10, and Z is ~~a carrier compound or a label~~ an amino acid or a peptide.

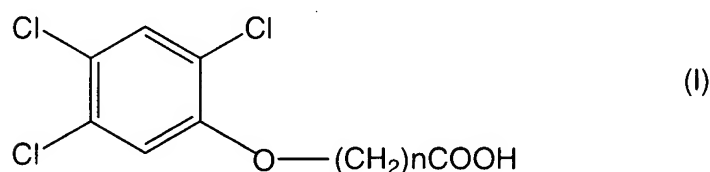
4. (currently amended) An immunoassay for determining an amount of dioxins in
a sample comprising: [[,]]

subjecting the sample and a competitive antigen for dioxins to a
competitive reaction with an anti-dioxin antibody for a time and under conditions
allowing the formation of an immunocomplex between dioxins in the sample and the
competitive antigen for dioxins, and the anti-dioxin antibody, wherein the competitive
antigen for dioxins is a 2,4,5-trichlorophenoxyalkyl amide derivative according to claim 3
~~is used as an antigen for a competitive immunoassay~~ represented by the following
formula (II):

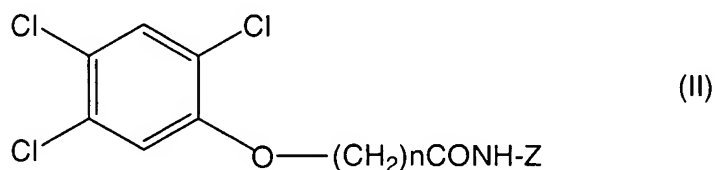


where n is an integer of 1 to 10, and Z is a carrier compound or a label;
and
determining formation of the immunocomplex between the competitive
antigen and the anti-dioxin antibody by a competitive immunoassay procedure.

5. (currently amended) An immunoassay kit for determining an amount of dioxins
in a sample comprising a 2,4,5-trichlorophenoxyalkyl carboxylic acid represented by the
 following formula (I):



where n is an integer of ~~[[1]]~~ 5 to 10, or a 2,4,5-trichlorophenoxyalkyl
 amide derivative represented by the following formula (II):



where n is an integer of 1 to 10, and Z is ~~a carrier compound or a label~~ an
amino acid or a peptide;

wherein the 2,4,5-trichlorophenoxyalkyl carboxylic acid or 2,4,5-
trichlorophenoxyalkyl amide derivative is used as a competitive antigen that reacts
specifically with dioxins and does not react with chlorobenzenes and chlorophenols.

6. (currently amended) The immunoassay kit according to claim 5, wherein the
 kit comprises 2,4,5-trichlorophenoxyalkyl amide derivative (II) which is immobilized to a
 solid phase ~~as an antigen~~, a primary antibody to dioxins and a labeled secondary
 antibody to the primary antibody.